

For Information

Legislative Council Panel on Environmental Affairs

**Information Note on the Sewage Infrastructure Built in the
Pearl River Delta Region in Recent Years**

Purpose

This paper provides information on the sewage infrastructure built in the Pearl River Delta region in recent years.

Sewage Infrastructure in the Pearl River Delta Region

2. At the Environmental Affairs Panel Meeting on 18 November 2004, the Administration was requested to provide information on the sewage infrastructure built in the Pearl River Delta region in recent years. The Environmental Protection Department (EPD) undertook a study to investigate the sewage arising and sewage infrastructure provision in the Pearl River Delta region. The study showed that each day about 12 million cubic metres of municipal wastewater are generated and discharged into the receiving waters in the Pearl River Delta region. Approximately 45% of the sewage is collected for treatment before discharge. As at the end of 2005, the region has about 70 completed municipal sewage treatment plants with a total treatment capacity of over 5.5 million cubic metres per day.

3. In 2002, the Guangdong Provincial Government announced a RMB 75 billion eight-year plan to construct new wastewater collection networks and new sewage treatment facilities for the Pearl River Delta region. Its target is to increase the total wastewater treatment capacity to 16.56 million cubic metres per day and to achieve in the Pearl River Delta region a municipal sewage collection and treatment rate of 70% by 2010.

4. At Annex A is a table showing the capacity and treatment level of major sewage treatment works in the Pearl River Delta region as at the end of 2005.

5. At Annex B is a table showing the completion dates, design capacities and estimated costs of recent major sewage treatment projects in the Pearl River Delta region. They are all secondary treatment plants.

Table 1 Major Sewage Treatment Works* in the Pearl River Delta Region (as of end 2005)

Administrative Region	Sewage Treatment Works	Treatment Capacity (thousand tons/day)	Treatment Level
Guangzhou	Liede	640	Secondary
	Datansha	550	Secondary
	Lijiao	200	Secondary
	Xilang	200	Secondary
	Panyushiqiao	100	Secondary
Shenzhen	Nanshan	736	Primary
	Binhe	300	Secondary
	Luofang	350	Secondary
	Yantian	120	Secondary
	Pinghu	75	Secondary
	Henggang	100	Secondary
	Longgang	110	Secondary
	Guanlan	60	Secondary
Zhuhai	Xiangzhou	80	Secondary
	Gongbei	108	Secondary
	Beiqu	50	Secondary
Foshan	Dongbo	100	Secondary
	Zhenan	200	Secondary
	Shagang (3 rd)	100	Secondary
	Pingzhou	50	Secondary
	Sanshuiyigang	50	Secondary
	Gaoming	50	Secondary
	Shiwan	50	Secondary
	Damen(Daliang)	60	Secondary
Huizhou	Meihu	200	Secondary
Dongguan	Guancheng	200	Secondary
	Tangxia (Lincun)	60	Secondary
Zhongshan	Zhongjia	200	Secondary
	Huojukaifaqu	50	Secondary
	Xiaolanzhen	50	Secondary
Jiangmen	Wenchang	140	Secondary
Zhaoqing	Shiqu	50	Secondary
	Lingshan	60	Secondary

* Sewage treatment works with treatment capacity of 50,000 cu.m/d or above.

Table 2 Recent Major* Domestic Sewage Treatment Projects in the Pearl River Delta Region (all are secondary treatment plants)

City	New, Upgrading and Expansion Works	Completion Date	Design Capacity (10 ³ tons/day)	Estimated Investment (million RMB)
Guangzhou	Liede STW (Stage 1, 2 & 3)	1999/2003/2005	640	1,320
	Xilang STW (Stage 1)	2004	200	400
	Shiqiao STW (Stage 1)	2004	100	100
	Lijiao STW (Stage 1)	2004	200	400
Shenzhen	Binhe, Luofang STW Extension	1997/2002	550	980
	Guanlan STW (extension)	2000	60	110
	Yantian STW	2001	120	200
	Nanshan STW	2004	384	600
	Henggang STW	2002	100	120
	Pinghu STW	1998/2000	75	100
Zhuhai	Gongbei STW Extension (Stage 1 & 2)	1998/2001	108	260
	Xiangzhou STW (Stage 2)	2005	50	100
	Beiqu STW	2005	50	100
Zhongshan	Zhongjia STW	1998	100	180
	Huojukaifaqu STW	2005	50	100
	Xiaolan STW	2005	50	100
Jiangmen	Wenchang STW (Stage 1 & 2)	1998/ 2001	140	310
Huizhou	Meihu STW (extension)	1998/ 2001	200	510
Foshan	Zhenan STW Extension Stage (1 & 2)	1997/2005	150	300
	Dongpo STW	2003	100	160
	Shagang STW (3 rd)	2004	100	200
	Shiwan STW	2000	50	100
	Pingzhou STW	2005	50	100
	Gaominghecheng STW	2005	50	100
	Sanshuiyigang STW	2005	50	100
Dongguan	Guancheng STW Stage (1 & 2)	2000/ 2002	200	400
	Tangxia Lincun WPP	2003	60	120
Zhaoqing	Shiqu STW	2000	50	80
	Lingshan STW	2005	60	100

* Sewage treatment projects with treatment capacity of 50,000 cu.m/d or above.